

IN THE CLAIMS:

1. (CURRENTLY AMENDED) A cast or forged suspension trailing arm for suspending a heavy vehicle chassis from a beam-type axle, the cast or forged suspension trailing arm comprising:

an integral axle locating formation to fully encircle ~~the~~ a portion of a beam-type axle, wherein the integral axle locating formation is part of a cast or forged suspension trailing arm.

2. (CANCELLED)

3. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 wherein a thickness of the cast or forged suspension trailing arm above the integral axle locating formation is less than 50 mm.

4. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 further including a chassis mounting formation, wherein the integral axle locating formation is integral with the chassis mounting formation to facilitate mounting the cast or forged suspension trailing arm to a chassis component of a vehicle.

5. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 wherein the integral axle locating formation is formed from a first section and a second section.

6. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 5 wherein the first section includes a portion of the integral axle locating formation and a chassis mounting formation that facilitates mounting the cast or forged suspension trailing arm to a chassis component.

7. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 5 wherein the second section includes a portion of the integral axle locating formation and a bracket for mounting a spring.

8. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 further including a chassis mounting formation, wherein a section of the cast or forged suspension trailing arm between the chassis mounting formation and the integral axle locating formation has one of a substantially I-shaped profile and a substantially C-shaped profile and includes a first flange and a second flange spaced by a web.
9. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 8 wherein the integral axle locating formation includes an opening near the web and inboard of the web.
10. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 8 wherein a bending strength of the one of the substantially I-shaped profile and the substantially C-shaped profile is greater near the integral axle locating formation than near the chassis mounting formation.
11. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 10 wherein at least one of a flange thickness, a web thickness, a flange width and a web depth of the cast or forged suspension trailing arm is different near the integral axle locating formation with respect to the chassis mounting formation to achieve a difference in the bending strength.
12. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 including an integral damper mounting formation for one of a suspension damper and a shock absorber.
13. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim 1 wherein the cast or forged suspension trailing arm includes at least one of a recessed portion, a concave portion, and a convex portion to facilitate fitment of one of an additional suspension component and a braking component near the cast or forged suspension trailing arm.

14. (CURRENTLY AMENDED) A suspension assembly ~~incorporating a beam-type axle and a cast or forged suspension trailing arm, the suspension comprising:~~

_____ a beam-type axle; and
_____ a cast or forged suspension trailing arm comprising including an integral axle locating formation arranged to fully encircle a portion of the beam-type axle, wherein the cast or forged suspension trailing arm is welded to the beam-type axle at the integral axle locating formation with a weld.

15. (CURRENTLY AMENDED) The suspension assembly according to Claim 14 wherein the weld carries a portion of a vertical load from the beam-type axle to the cast or forged suspension trailing arm.

16-36. (CANCELLED)

37. (CURRENTLY AMENDED) A cast or forged suspension trailing arm for suspending a heavy vehicle chassis from a beam-type axle, the cast or forged suspension trailing arm comprising:

a chassis mounting formation;
an axle locating formation;
a section intermediate the chassis mounting formation and the axle locating formation having a substantially C-section profile and including a first flange and a second flange spaced by a web,

_____ wherein the chassis mounting formation, the axle locating formation and the section are part of a cast or forged suspension trailing arm.

38. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to ~~claim-Claim~~ 37 wherein the axle locating formation fully encircles the a beam-type axle.

39. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to ~~claim-Claim~~ 37 including a first section and a second section joined at the axle locating formation.

40. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to ~~claim~~Claim 3; wherein the thickness is less than 30 mm.

41. (CURRENTLY AMENDED) The cast or forged suspension trailing arm according to Claim ~~claim~~ 40; wherein the thickness is less than 20 mm.

42. (NEW) The cast or forged suspension trailing arm according to Claim 37 wherein the substantially C-section profile is defined by a cross-section taken transverse to a longitudinal axis of the cast or forged suspension trailing arm.

43. (NEW) A suspension trailing arm for suspending a heavy vehicle chassis from a beam-type axle, the suspension trailing arm comprising:

- a chassis mounting formation;

- a first cast or forged component including a first portion of an axle locating formation, and an integral arm portion extending between the first portion of the axle locating formation and the chassis mounting formation; and

- a second component comprising a second portion of the axle locating formation and a bracket for mounting a spring;

- wherein the first portion and the second portion of the axle locating formation mate together to fully encircle a portion of a beam-type axle.

44. (NEW) The suspension trailing arm according to Claim 43 wherein the second component is a cast or forged component.

45. (NEW) The suspension trailing arm according to Claim 43 wherein the first component includes the chassis mounting formation that is integral with the integral arm portion.

46. (NEW) The suspension trailing arm according to Claim 43 wherein the first portion and the second portion of the axle locating formation are each arranged to encircle substantially half of the beam-type axle.

47. (NEW) The suspension trailing arm according to Claim 43 wherein the first portion and the second portion of the axle locating formation mate together at corresponding edges above and below the beam-type axle.
48. (NEW) The suspension trailing arm according to Claim 47 wherein the suspension trailing arm includes welds connecting the corresponding edges above and below the beam-type axle.
49. (NEW) The suspension trailing arm according to Claim 43 wherein the first portion of the axle locating formation includes a window aperture having a peripheral edge.
50. (NEW) The suspension trailing arm according to Claim 49 including a beam-type axle, wherein a weld extending around a portion of the peripheral edge of the window aperture connects the beam-type axle to the axle locating formation.